

PATENT ABSTRACTS OF JAPAN

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(21)Application number : 10-270453 (71)Applicant : MIYAZAKI HIROSHI

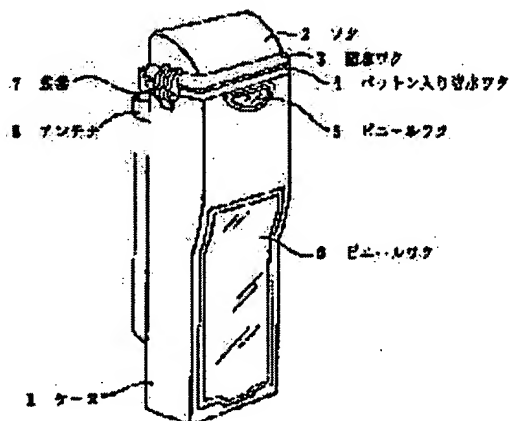
(22)Date of filing : 18.08.1998 (72)Inventor : MIYAZAKI HIROSHI

(54) WATER-PROOF CASE FOR PORTABLE TELEPHONE SET AND PHS

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a water-proof case capable of protecting a portable telephone set and PHS from dust and water and being used as in the conventional manner.

SOLUTION: A waterproof frame 4 with packing is provided at the upper part of a case 1, a waterproof frame 3 is provided at the lower part of a cover 2, a hinge 7 permitting free opening/closing is provided, a lock and a hook are provided, a vinyl frame 5 is provided at the upper part of the case 1, a vinyl frame 6 is provided at the lower part, an antenna 8 is provided on the rear face of the case 1 and a radio wave reception metallic fixture is attached to the inside of the case 1.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

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[Date of final disposal for application]

[Patent number]

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CLAIMS

[Claim(s)]

[Claim 1] (b) Prepare the waterproofing frame (4) which has packing in the case (1) in which the upper part carried out opening in opening of a case (1) so that a cellular phone may be settled, and prepare a waterproofing frame (3) in opening of the free wheel plate (2) of a case.

(b) Closing motion of a free wheel plate prepares the hinge (7) made freely in the left or right lateral opening of a case (1), and prepares a lock instrument (11) and a hook (9) in a side face besides opening.

(c) Prepare a vinyl frame (5) in the part which hits the earphone of the cellular phone of a case (1), and prepare a vinyl frame (6) in the part which is equivalent to the control unit and telephone transmitter of a cellular phone of a case (1).

(d) Form an antenna (8) in the rear face of a case (1), and form the electric-wave receiving metallic ornaments (10) which transmit the received electric wave from an antenna (8) to the interior of a case in the interior of a case (1).

The cellular phone, the waterproof case for PHS which consist of the above configuration.

[Translation done.]

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the cellular phone for using a cellular phone and PHS a pool, a bath, and outdoor, and the waterproof case for PHS.

[0002]

[Description of the Prior Art] Conventionally, there was no waterproofing instrument which protects a cellular phone and PHS from water or dust, and while taking a bath, when telephone was used, it caused failure.

[0003]

[Problem(s) to be Solved by the Invention] (b) When a cellular phone and PHS were used in the bath etc., it had become the cause by which steam, water, etc. got in and broke down.

(b) If a cellular phone and PHS are dropped into water, it will sink.

(c) It will become the cause of failure if it has and goes to a dusty location.

This invention is made in order to solve the above fault.

[0004]

[Means for Solving the Problem] (b) Prepare the waterproofing frame (4) which consists of free wheel plates (2) of the case (1) in which the upper part carried out opening so that a cellular phone might be settled, and the case in which the lower part carried out opening, and has packing in opening of a case (1), and prepare a waterproofing frame (3) in opening of a free wheel plate (2).

(b) In order to free closing motion of a case (1) and a free wheel plate (2), carry out pons delivery of a case (1) and the free wheel plate (2), and prepare a hinge (7) in an opening left lateral or a right lateral. A lock instrument (11) is formed in the opposite side side in which the hinge (7) of the waterproofing frame (4) of a case (1) was attached, and a hook (9) is prepared in the opposite side side in which the hinge of the waterproofing frame (3) of a free wheel plate (2) was attached.

(c) Prepare a vinyl frame (5) in the part which hits the earphone of the cellular phone of a case (1), and prepare a vinyl frame (6) in a control unit and the part which hits a telephone transmitter.

(d) Form an antenna (8) in the rear face of a case (1), and connect the electric-wave receiving metallic ornaments (10) which transmit the electric wave from the antenna (8) in the part which hits the rear face of the cellular phone inside a case (1) to the interior of a case through a case (1). This invention is a waterproof case for a cellular phone and PHS which consists of the above configurations.

[0005]

[Embodiment of the Invention] Hereafter, the gestalt of operation of this invention is explained.

(b) Prepare the waterproofing frame (4) which consists of free wheel plates (2) of the case made from transparence plastics in which the lower part carried out opening to the case made from transparence plastics (1) in which the upper part carried out opening, and has packing in opening of a case (1) so that a cellular phone may be settled, and prepare a waterproofing frame (3) in opening of the free wheel plate (2) of a case.

(b) In order to free closing motion of the free wheel plate (2) of a case (1) and a case, carry out pons

delivery of the free wheel plate (2) of a case (1) and a case, and prepare a hinge (7) in an opening left lateral or a right lateral. A lock instrument (11) is formed in the opposite side side in which the hinge (7) of the waterproofing frame (4) of a case (1) was attached, and a hook (9) is prepared in the opposite side side in which the hinge (7) of the waterproofing frame (3) of the free wheel plate (2) of a case was attached.

(c) Prepare the vinyl frame (5) which fixed vinyl to the part which hits the earphone of the cellular phone of a case (1) by the plastics frame, and prepare the vinyl frame (6) which fixed vinyl to the part which is equivalent to the control unit and telephone transmitter of a cellular phone of a case (1) by the plastics frame.

(d) Form an antenna (8) in the rear face of a case (1), and connect the electric-wave receiving metallic ornaments (10) which transmit the electric wave from the copper antenna (8) in the part which hits the rear face of the cellular phone inside a case (1) to the interior of a case through a case (1).

When it is the above structures and this is used, after it removes a lock instrument (11) for a cellular phone or PHS, and it opens a free wheel plate (2), and this invention puts in telephone into a case (1), shuts a free wheel plate (2) and locks it firmly with a lock instrument (11), it takes out an antenna (8) and telephones push and a partner for the push button in the vinyl frame (6) section. And a lug is applied to the earphone in the vinyl frame (5) section, and it talks with a partner with the telephone transmitter in a vinyl frame (6). In addition, since electric-wave receiving metallic ornaments (10) are stuck and fixed according to the form of telephone at the body of telephone as shown in drawing 6, you may equip with the electric-wave receiving metallic ornaments with sponge (12) which attached sponge in the rear face of electric-wave receiving metallic ornaments between telephone and electric-wave receiving metallic ornaments (10).

[0006]

[Effect of the Invention] A cellular phone and PHS can be used by using this invention, without breaking down a bath, outdoor [a pool, outdoor / dusty], etc. And since buoyancy is in a waterproof case, even if it drops into water, it does not sink, but is very safe.

[Translation done.]

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TECHNICAL FIELD

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PRIOR ART

[Description of the Prior Art] Conventionally, there was no waterproofing instrument which protects a cellular phone and PHS from water or dust, and while taking a bath, when telephone was used, it caused failure.

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EFFECT OF THE INVENTION

[Effect of the Invention] A cellular phone and PHS can be used by using this invention, without breaking down a bath, outdoor [a pool, outdoor / dusty], etc. And since buoyancy is in a waterproof case, even if it drops into water, it does not sink, but is very safe.

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TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention] (b) When a cellular phone and PHS were used in the bath etc., it had become the cause by which steam, water, etc. got in and broke down.
(b) If a cellular phone and PHS are dropped into water, it will sink.
(c) It will become the cause of failure if it has and goes to a dusty location.
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MEANS

[Means for Solving the Problem] (b) Prepare the waterproofing frame (4) which consists of free wheel plates (2) of the case (1) in which the upper part carried out opening so that a cellular phone might be settled, and the case in which the lower part carried out opening, and has packing in opening of a case (1), and prepare a waterproofing frame (3) in opening of a free wheel plate (2).

(b) In order to free closing motion of a case (1) and a free wheel plate (2), carry out pons delivery of a case (1) and the free wheel plate (2), and prepare a hinge (7) in an opening left lateral or a right lateral. A lock instrument (11) is formed in the opposite side side in which the hinge (7) of the waterproofing frame (4) of a case (1) was attached, and a hook (9) is prepared in the opposite side side in which the hinge of the waterproofing frame (3) of a free wheel plate (2) was attached.

(c) Prepare a vinyl frame (5) in the part which hits the earphone of the cellular phone of a case (1), and prepare a vinyl frame (6) in a control unit and the part which hits a telephone transmitter.

(d) Form an antenna (8) in the rear face of a case (1), and connect the electric-wave receiving metallic ornaments (10) which transmit the electric wave from the antenna (8) in the part which hits the rear face of the cellular phone inside a case (1) to the interior of a case through a case (1). This invention is a waterproof case for a cellular phone and PHS which consists of the above configurations.

[0005]

[Embodiment of the Invention] Hereafter, the gestalt of operation of this invention is explained.

(b) Prepare the waterproofing frame (4) which consists of free wheel plates (2) of the case made from transparence plastics in which the lower part carried out opening to the case made from transparence plastics (1) in which the upper part carried out opening, and has packing in opening of a case (1) so that a cellular phone may be settled, and prepare a waterproofing frame (3) in opening of the free wheel plate (2) of a case.

(b) In order to free closing motion of the free wheel plate (2) of a case (1) and a case, carry out pons delivery of the free wheel plate (2) of a case (1) and a case, and prepare a hinge (7) in an opening left lateral or a right lateral. A lock instrument (11) is formed in the opposite side side in which the hinge (7) of the waterproofing frame (4) of a case (1) was attached, and a hook (9) is prepared in the opposite side side in which the hinge (7) of the waterproofing frame (3) of the free wheel plate (2) of a case was attached.

(c) Prepare the vinyl frame (5) which fixed vinyl to the part which hits the earphone of the cellular phone of a case (1) by the plastics frame, and prepare the vinyl frame (6) which fixed vinyl to the part which is equivalent to the control unit and telephone transmitter of a cellular phone of a case (1) by the plastics frame.

(d) Form an antenna (8) in the rear face of a case (1), and connect the electric-wave receiving metallic ornaments (10) which transmit the electric wave from the copper antenna (8) in the part which hits the rear face of the cellular phone inside a case (1) to the interior of a case through a case (1).

When it is the above structures and this is used, after it removes a lock instrument (11) for a cellular phone or PHS, and it opens a free wheel plate (2), and this invention puts in telephone into a case (1), shuts a free wheel plate (2) and locks it firmly with a lock instrument (11), it takes out an antenna (8)

and telephones push and a partner for the push button in the vinyl frame (6) section. And a lug is applied to the earphone in the vinyl frame (5) section, and it talks with a partner with the telephone transmitter in a vinyl frame (6). In addition, since electric-wave receiving metallic ornaments (10) are stuck and fixed according to the form of telephone at the body of telephone as shown in drawing 6 , you may equip with the electric-wave receiving metallic ornaments with sponge (12) which attached sponge in the rear face of electric-wave receiving metallic ornaments between telephone and electric-wave receiving metallic ornaments (10).

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the perspective view of this invention.

[Drawing 2] It is the perspective view showing the opening condition of this invention.

[Drawing 3] It is the side elevation from which the side face of this invention was clipped.

[Drawing 4] It is the rear view of this invention.

[Drawing 5] It is the perspective view showing the busy condition of this invention.

[Drawing 6] It is the perspective view which clipped the part which shows the example of this invention.

[Description of Notations]

- 1 Case
- 2 Free Wheel Plate
- 3 Waterproofing Frame
- 4 Waterproofing Frame Containing Packing
- 5 Vinyl Frame
- 6 Vinyl Frame
- 7 Hinge
- 8 Antenna
- 9 Hook
- 10 Electric-Wave Receiving Metallic Ornaments
- 11 Lock Instrument
- 12 Electric-Wave Receiving Metallic Ornaments with Sponge

[Translation done.]

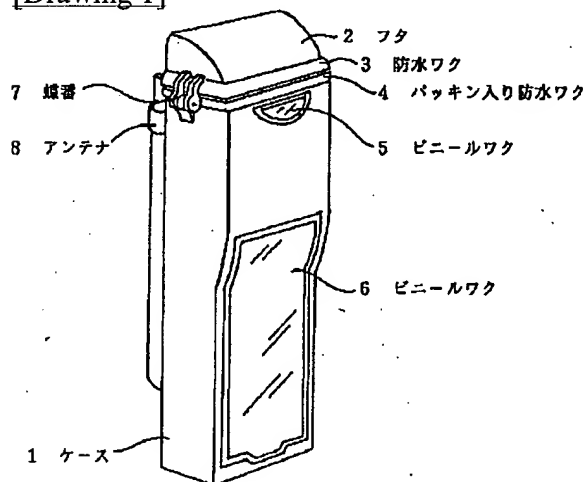
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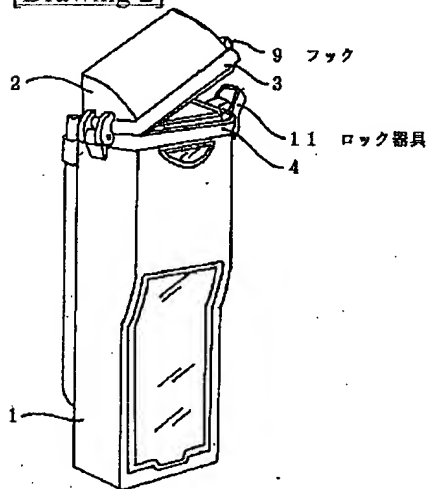
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DRAWINGS

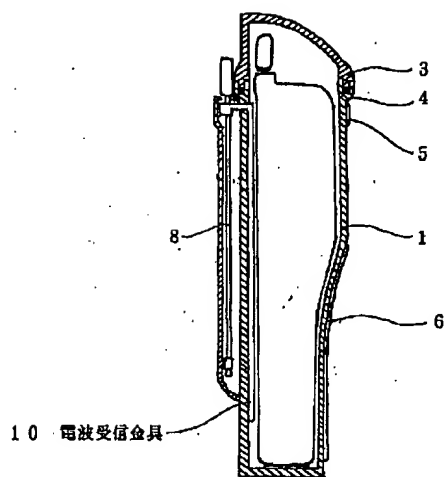
[Drawing 1]



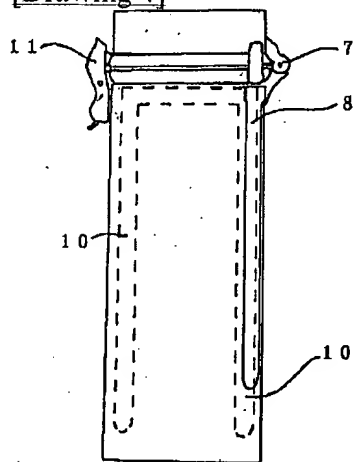
[Drawing 2]



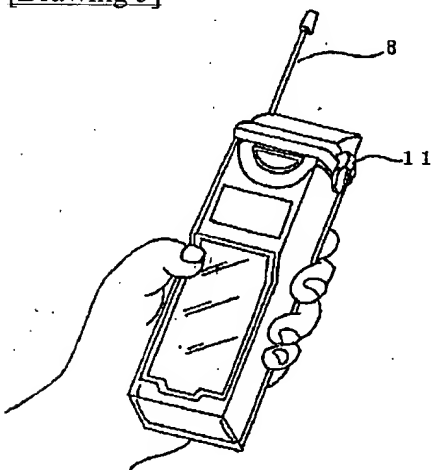
[Drawing 3]



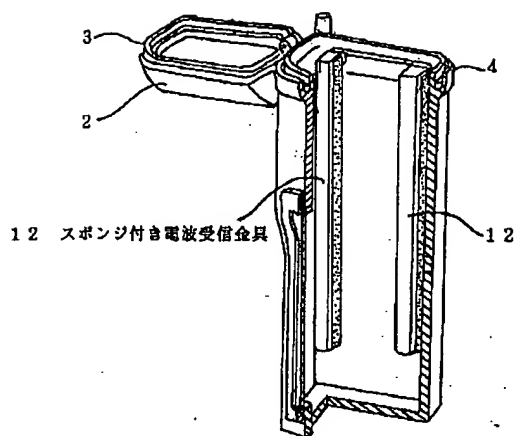
[Drawing 4]



[Drawing 5]



[Drawing 6]



[Translation done.]